

Application/Control Number: 09/758,483
Art Unit: 2654

Docket No.: 2000-0034

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-3. (Canceled)

4. (Currently Amended) A natural language generator for translating an input dependency syntax tree into a natural language output, the generator comprising

a tree choosing module, responsive to the input dependency syntax tree, for stochastically selecting tree-adjoining grammar trees for each node in the input dependency tree to create a semi-specified derivation tree, the tree choosing module including a tree model database for use in selection;

an unraveling module, responsive to the stochastically selected tree-adjoining grammar trees created by the tree choosing module and including a predetermined reference grammar database for creating from [[the]] syntactic realizations a lattice of all possible linearizations of said trees using the reference grammar of said database; and

a linear precedence chooser module for selecting [[the]] a most likely traversal path through the lattice as the natural language output of the generator.

5. (Currently Amended) The generator as defined in claim 4 wherein the linear precedence chooser module utilizes [the] a Viterbi algorithm to select the most likely traversal path.

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6. (Original) The generator as defined in claim 4 wherein the unraveling module includes a reference grammar database.
7. (Original) The generator as defined in claim 6 wherein the reference grammar database comprises an XTAG grammar database.

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